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TITLE: POSITION MEASURING DEVICE  
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ABSTRACT:

PURPOSE: To measure the position of a target body based upon a transmitting antenna by receiving three transmitted waves and calculating frequency differences between received waves.

CONSTITUTION: Three linear FM signals radiated on the basis of three transmission points 5, 6, and 22 as reference points where the linear FM signals are radiated are reflected by the target body 32, and their reflected waves are received by a receiver 1; and the difference frequency between two of three receive signals is calculated and the difference frequency between different received signals is also calculated to obtain pieces of information on two directions  $\theta$  and  $\phi$ ; from bisecting planes 8 and 20 between the transmission points 5 and 6, and 6 and 7 as frequency information, thereby measuring the position of the target body 32 as the intersection of the two directions.

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